

# Python Fun(damentals)

## Defining Functions

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Obscurity Labs

```
* control flow
```



# What is a Control Flow

The programs we have written and used up until this point have been a series of code that are executed in a state of flow (top down). We need to now add logic to our programs.

Take this scenario for example: we need to take in a book page and return the text for this page but we have many different pages. And if they select a missing page we need to warn the user. How do we do this?

This is achieved using control flow statements. There are three control flow statements in Python - if, for and while.

# Creating a basic `if` Statement

```
page = int(input('Enter an integer : '))

if page == 1:
    print('Page 1 text: Hi alex)
else:
    print(f'Page {page} is missing)

print("Done!")
```

# Creating a basic `if` Statement with Multiple Pages

```
page = int(input('Enter an integer : '))

if page == 1:
    print('Page 1 text: Hi alex')
elif page == 2:
    print(f'Page {page} text: Hi from page 2')
elif page > 2:
    print(f'Page {page} is larger than pages in the db')
else: # anyone know how we could get here?
    print(f'Page {page} does not exist, how did we get here?')
print("Done!")
```

# Lab\_2.py

## Tasking

Using the new `poetry` command perform the following:

1. Go into the `06_python3_flow_control/` folder and open `lab_2.py`
2. Add a function called `hello_world(value)` that takes in a `int`
3. Create a if statement in this function that returns the string `pass` if passed the `int 5`
4. otherwise the function should return `fail`

## Testing your work

**NOTE:** you should see Green `PASS` statements indicating you completed the lab

```
$ poetry shell  
$ python lab_2.py
```